

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

KAESER 6815313 Component

Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

			Nov2021	Jan ² 023		
SAMPLE INFORM		method	limit/base	current	history1	history2
0.000 22 000 000		Client Info		KCP47950D	KCP42470	
Sample Number Sample Date		Client Info		02 Jan 2023	17 Nov 2021	
•	hrs	Client Info		5593	3695	
Machine Age		Client Info				
Oil Age	hrs			2000	1700 Channed	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>50	<1	1	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m	-		0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	pp			-		bister 0
		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	18	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	100	70	74	
Calcium	ppm	ASTM D5185m	0	0	0	
Phosphorus	ppm	ASTM D5185m	0	3	4	
Zinc	ppm	ASTM D5185m	0	11	18	
Sulfur	ppm	ASTM D5185m	23500	22295	17576	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	A 34	3	
Sodium	ppm	ASTM D5185m		13	15	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304	>0.05	0.027	0.014	
ppm Water	ppm	ASTM D6304	>500	279.3	143.2	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5549	1009	
Particles >6µm		ASTM D7647	>1300	1544	301	
Particles >14µm		ASTM D7647		67	14	
Particles >21µm		ASTM D7647		12	4	
Particles >38µm		ASTM D7647		1	0	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	o ▲ 20/18/13	15/11	
Ch Olcanin 1635		100 4400 (0)	/ ////10	- 20/10/13	10/11	
	TION					
FLUID DEGRADA	TION	method ASTM D8045	limit/base	current 0.38	history1 0.342	history2

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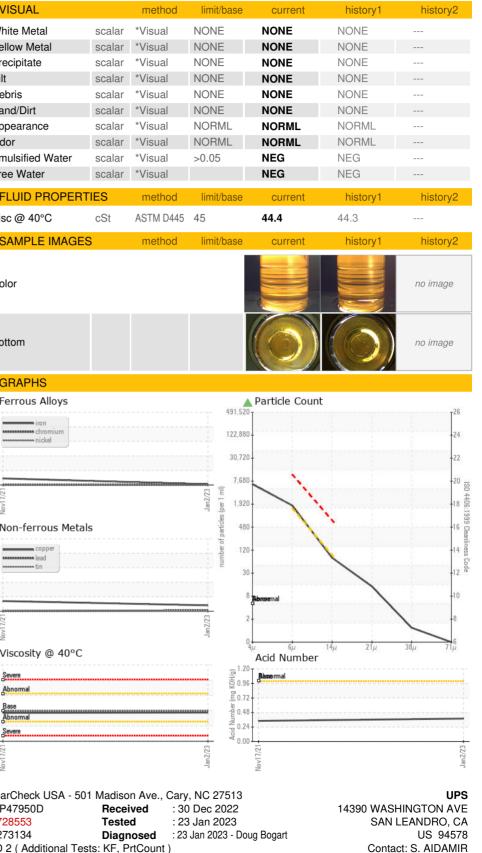
Contact/Location: S. AIDAMIR - UPSSAN



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Silicon (ppm) 60			VISUAL		method	limit/b
50 Severe			White Metal	scalar	*Visual	NONE
40 -			Yellow Metal	scalar	*Visual	NONE
E 20			Precipitate	scalar	*Visual	NONE
20 Abnormal			Silt	scalar	*Visual	NONE
10			Debris	scalar	*Visual	NONE
			Sand/Dirt	scalar	*Visual	NONE
Nov17/21		Jan 2/23	Appearance	scalar	*Visual	NORM
Nov		Jan	Odor	scalar	*Visual	NORM
🔺 Particle Trend			Emulsified Water	scalar	*Visual	>0.05
^{6k} T			Free Water	scalar	*Visual	
² 5k - 4μm 4μm 6μm 14μm			FLUID PROPERT	IES	method	limit/b
Ξ 5k Ξ 5k Ξ 4k Ξ 3k J 3k J 2k J 14μm			Visc @ 40°C	cSt	ASTM D445	45
jo ag 2k			SAMPLE IMAGES	S	method	limit/b
Ik -	a de la casa	ARMARKANA ARMARKANA	0.000			
0k 12/LIvoN		Jan2/23	Color			
Nov		Jar				
Water (KF)						
10000 - Severe			Bottom			
E 8000						
6000			GRAPHS			
4000 -			Ferrous Alloys			
2000			T			
0 Abnormal			iron			
Nov17/2		n2/	5 nickel			
No			2			
Acid Number						
1.20 Basermal			Nov17/21			Jan2/23 (per 1 ml)
00.96			—			Jan2/23 number of particles (per 1 ml)
g0.72-		1	Non-ferrous Metal	S		partic
ធ្វ ធ្ម 0.48			copper			ther of
		F	6 - tin			um
		udd	1			
0.00		5	2			
Nov17/2		C				23
Water (KF)			Nov17/			Jan 2/7
12000		-	Viscosity @ 40°C			
10000 - Severe		6 5	Severe			
8000-						
6000		(D=04) tSD 4	Base			
4000 -			Automa			
2000 - Abnormal		3	Severe			
0 1 9		6	12/21/			Jan 2/23
Nov17/		1.C1	Nov			Jai
			/earCheck USA - 50			
		nple No. : K Number : 0	CP47950D	Recei) Dec 20
	ISO/ACC (7025	ue Number : 1		Teste Diagr		3 Jan 20 Jan 2023
			ID 2 (Additional Tes			
	To discuss this sam	ple report, col	ntact Customer Servi	ice at 1-8	800-237-1369	
			outside of the ISO 1 fications are based c			
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